From the INTERNATIONAL BUREAU



NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rule 72.2)

To

YOSHITAKE, Kenji Kyowa Patent & Law Office Room 323, Fuji Bldg. 2-3, Marunouchi 3-chome Chiyoda-ku, Tokyo 100-0005 JAPON



Date of mailing (day/month/year)
09 June 2005 (09.06.2005)

Applicant's or agent's file reference 142118-993

International application No. PCT/JP2003/010705

IMPORTANT NOTIFICATION

International filing date (day/month/year) 25 August 2003 (25.08.2003)

Applicant

TOKYO ELECTRON LIMITED et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

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The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

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Translation

PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 142118-993	FOR FURTHER AC	CTION	See Form PCT/IPEA/416				
International application No.	International filing dat	e (day/month/year)	Priority date (day/month/year)				
РСТ/ЈР2003/010705	25 August 2003	3 (25.08.2003)	23 August 2002 (23.08.2002)				
International Patent Classification (IPC) or H01L 21/31, C23C 16/448	national classification and	d IPC					
Applicant	TOKYO ELECT	RON LIMITED					
This report is the international prel Authority under Article 35 and tran	iminary examination repositions in the second secon	ort, established by this according to Article 3	s International Preliminary Examining 6.				
1							
a. (sent to the applicant an	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment the beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications re		ms:					
Box No. I Basis of the report							
Box No. II Priority							
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabilit citations and explanations supporting such statement							
Box No. VI Certain docu							
	cts in the international ap	plication					
Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completion	of this report				
30 January 2004 (30.0	01.2004)	14	October 2004 (14.10.2004)				
Name and mailing address of the IPEA/JF		Authorized officer					
Facsimile No.		Telephone No.					

INTERNATIONAL PRELIMATION RY REPORT ON PATENTABILITY

Box No. I	[]	Basis of the report
With re otherwi	egard	to the language, this report is based on the international application in the language in which it was filed, unless dicated under this item.
	This :	report is based on translations from the original language into the following language, is language of a translation furnished for the purpose of:
[international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
[international preliminary examination (under Rules 55.2 and/or 55.3)
_		
furnish and are	ed to	to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report): anternational application as originally filed/furnished
		scription: , as originally filed/furnished
•	pages pages	
_	pages	
	the cla	
		ee originally filed/firmished
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1		
'	a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3	The a	mendments have resulted in the cancellation of:
		the description, pages
	一	the claims, Nos.
	Ħ	the drawings, sheets/figs
	Ħ	the sequence listing (specify):
	H	any table(s) related to sequence listing (specify):
1	ш	any table(s) related to sequence manage (speedy)/.
	made	report has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (70.2(c)). the description, pages the claims, Nos the drawings, sheets/figs any table(s) related to sequence listing (specify):
-		any table(s) related to sequence fishing (specify).
* If item	п 4 ар	plies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMENT Y REPORT ON PATENTABILITY

International	application	No

PCT/JP03/10705

Box No. IV	Lack of unity of invention
1 In	response to the invitation to restrict or pay additional fees the applicant has:
	restricted the claims.
	paid additional fees.
	paid additional fees under protest.
	neither restricted nor paid additional fees.
2. Thi	s Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, to invite the applicant to restrict or pay additional fees.
3. This Auth	nority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
	plied with.
	complied with for the following reasons:
dispersion gas dispers The	special technical feature of claims 1-7 is that a first carrier-gas feeding means "is composed of a gas chamber provided on the bottom of a material storage vessel and a gas jetting plate dividing the said sion chamber and having a large number of pores for gas jetting in it." special technical feature of claims 8-25 is that a processing system has "a opening/closing valve to the gas passage."
The	special technical feature of claims 26-44 is that a processing system has "a detection means to detect f the inside of a gas passage or a material storage vessel, and a control part to perform a control such a way that the values detected by the said detection means are kept at predetermined values."
	•
4. Conseq	uently, this report has been established in respect of the following parts of the international application:
	all parts.
lr	the parts relating to claims Nos.
1 '	

CT/JP03/10705

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement

tatement Novelty (N)	Claims	2-3, 7-25, 29, 34-44	YES
	Claims	1, 4-6, 26-28, 30-33	NO
Inventive step (IS)	Claims	2-3, 8-25, 29, 34-35	YE
. , ,	Claims	1, 4-7, 26-28, 30-33, 36-44	NO
Industrial applicability (IA)	Claims	1-44	YE
	Claims		NC

2. Citations and explanations (Rule 70.7)

Document 1: JP, 2001-131754, A (Samsung Electronics Co., Ltd.), 15 May, 2001 (15.05.01), Figs. 5 and 9,

paragraph [0071], & US, 6424800, B1, Figs. 5 and 9

Document 2: JP, 6-196414, A (Kawasaki Steel Corp.), 15 July, 1994 (15.07.94), Figs. 1-3

Document 3: JP, 2-256238, A (Nippon Telegraph and Telephone Corp.), 17 October, 1990 (17.10.90), Fig. 1, & US, 5019531, A, Fig. 1

Document 4: JP, 2001-73145, A (Tokyo Electron Ltd.), 21 March, 2001 (21.03.01), Fig. 4

Document 5: JP, 2001-68465, A (Tokyo Electron Ltd.), 16 March, 2001 (16.03.01), Figs. 1 and 5, & US,

Document 6: JP, 2000-122725, A (CKD K.K.), 28 April, 2000 (28.04.00), Fig. 1

Document 7: JP, 4-99279, A (Seiko Epson Corp.), 31 March, 1992 (31.03.92), Figs. 1 and 2

Document 8: JP, 7-18449, A (Hitachi, Ltd.), 20 January, 1995 (20.01.95), paragraphs [0028] and [0029], Fig. 3

Document 9: WO, 94-06529, A1 (Mitsubishi Electric Corp.), 3 March, 1994 (03.03.94), Fig. 15, & US,

5520858, A

Claim 1

The subject matter of claim 1 does not appear to be novel in view of documents 1 and 2 cited in the ISR. "A gas dispersion chamber provided on the bottom of the said material storage vessel, and a gas jetting plate dividing the said gas dispersion chamber and having a large number of gas jetting pores in it," described in claim 1, are disclosed in document 1 (Fig. 5) and document 2 (Fig. 1) respectively.

Claims 4-6

The subject matters of claims 4-6 do not appear to be novel in view of document 1 cited in the ISR. A feature described in claim 6 wherein "the said means of heating a material is embedded in the said gas jetting plate" is disclosed in document 1 (Fig. 9).

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: V2

Claim 7

The subject matter of claim 7 does not appear to involve an inventive step in view of documents 1 and 2 cited in the ISR. Although neither of documents 1 and 2 describes that "the said shower part is made hollow with empty space inside and is supported on the bottom by a support member," a method of supporting the shower part is a matter that a person skilled in the art could have decided as required.

Claims 2, 3, 34 and 35

The subject matters of claims 2, 3, 34 and 35 appear to involve an inventive step over the documents cited in the ISR. Neither of documents 1 and 2 describes that "a porous fluoric resin layer is provided on the gas jetting face of the said gas jetting plate" or that "the said gas jetting plate is composed of a porous fluoric resin."

Claims 8-25

The subject matters of claims 8-25 appear to involve an inventive step over the documents cited in the ISR. Neither of documents 3 and 4 describes that (1) "a gas passage extended upward from the said shower head part," (2) "a material storage vessel installed on the top end of the said gas passage to contain the said metal compound material inside," and (3) "an opening/closing valve to open/close the said gas passage are provided."

Claims 26, 27 and 33

The subject matters of claims 26, 27 and 33 do not appear to be novel in view of document 1 cited in the ISR. "A temperature detection means" described in claim 27 is disclosed as "a thermal sensor 74" in document 1 (Fig. 5 and paragraph [0071]).

Claims 26, 28 and 30

The subject matters of claims 26, 28 and 30 do not appear to be novel in view of document 5 cited in the ISR. "A pressure detection means" described in claim 28 is disclosed in document 5 (Fig. 1). "A partialpressure detection means" described in claim 30 is disclosed in document 5 (Fig. 5).

Claim 29

The subject matter of claim 29 appears to involve an inventive step over the documents cited in the ISR. Document 6 does not describe that the said material-heating means or the said first carrier-gas feeding means is controlled."

Claims 26 and 31

The subject matters of claims 26 and 31 do not appear to be novel in view of document 7 cited in the ISR. "A gas flow detection means" described in claim 31 is disclosed in document 7 (Fig. 1).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: V.2

Claims 26 and 32

The subject matters of claims 26 and 32 do not appear to be novel in view of document 8 cited in the ISR. (a) "A gas flow detection means" and (b) a feature wherein "the gas flow in each of the said first and second carrier-gas feeding means is controlled" described in claim 32 are disclosed in document 8 (Fig. 3 and paragraphs [0028] and [0029]).

Claim 36

The subject matter of claim 36 does not appear to involve an inventive step in view of documents 5, 7 and 8 cited in the ISR. Although none of documents 5, 7 and 8 describes that "material-heating means are provided in the bottom part, the side part and the ceiling part of this material storage vessel, and the said material-heating means can be individually controlled," using a plurality of heating means and constituting them so that they can be individually controlled is a well-known technology, and a person skilled in the art could have easily conceived of the idea of adopting them.

Claims 37-44

The subject matters of claims 37-44 do not appear to involve an inventive step in view of documents 1 and 9 cited in the ISR. Because documents 1 and 9 belong to respective technical fields that are closely related to each other, a person skilled in the art could have easily conceived of the idea of applying a "baffle plate member" described in document 9 (Fig. 15) to the invention described in document 1.